



**SUMMARY TEST DATA
ON
SDLVA-218-65-16MV-12DBM-OPTJE**

Customer: _____ Tested By: E.Benson
 SO No: _____ Temperature: +25°C
 Model No: SDLVA-218-65-16MV-12DBM-OPTJE Date: 02/28/2021
 Serial No: PL28597/2108 Drawing No: 27636260 Rev: A2

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	2 GHz to 18 GHz	2 GHz to 18 GHz	PMI QA3
2	TSS	-64 dBm max	-65.5 dBm	
3	Input Power Handling	+20 dBm	+20 dBm	
4	Video Output DC Offset	-100 mV nom (not greater than zero)	-124 mV	
5	Video Log Range	-55 dBm to +10 dBm	-55 to +10 dBm	
6	Video Log Linearity	+2.2 dB	+1.25 dB -2.14 dB	
7	Video Log Slope	16.0 ±2.0 mV/dB nom	17.0 / 15.9 mV/dB	
8	Video Freq Flatness	±4 dB max	+/- 2.9 dB	
9	Pulse Width Range	25 nsec to CW	Pass	
10	Video Rise Time	10 nsec max	3.8 nsec	PMI QA3



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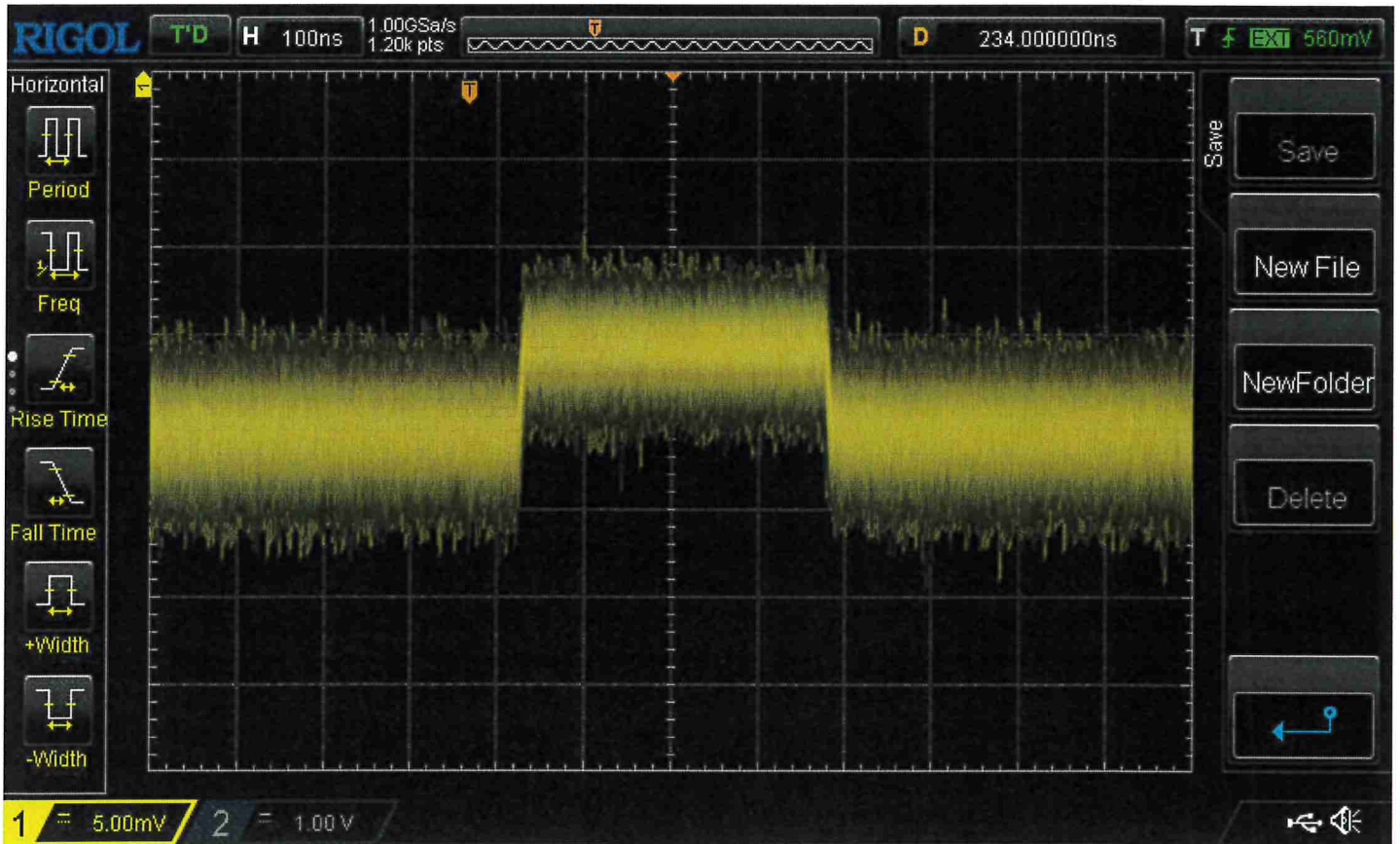
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
11	Video Fall Time	20 nsec max	18.0 nsec	PMI QA3
12	Recovery Time	50 nsec max	35.0 nsec	
13	Delay	<2 nsec	< 2.0 nsec	
14	Video Output Impedance	50Ω	Pass	
15	RF In/Out Impedance	50Ω	Pass	
16	Input VSWR (50Ω)	2.0:1 max	1.96:1	
17	DC Supply	+12 V @ 850 mA -12 V @ 250 mA	551mA 25 mA	PMI QA3

QA/QC Approval: Arthur Zimmerman Date: 3-4-2021



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VIDEO TSS -65.5 dBm



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**SUMMARY TEST DATA
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VIDEO LOG LINEARITY

MODEL: SDLVA-218-65-16MV-12DBM-OPTJE
 SERIAL NO: PL28597
 DATE: 02/28/2021
 TESTED BY: E.BENSON
 Test Temp: +25C

GRAPH #1



PLANAR MONOLITHICS INDUSTRIES
 4921 Robert J. Mathews Parkway Suit 1
 El Dorado Hills, CA 95762
 TEL: 916-542-1401 FAX: 916-265-2597
 EMAIL: SALES@PMI-RF.COM

Video Output Voltage With No RF -0.124

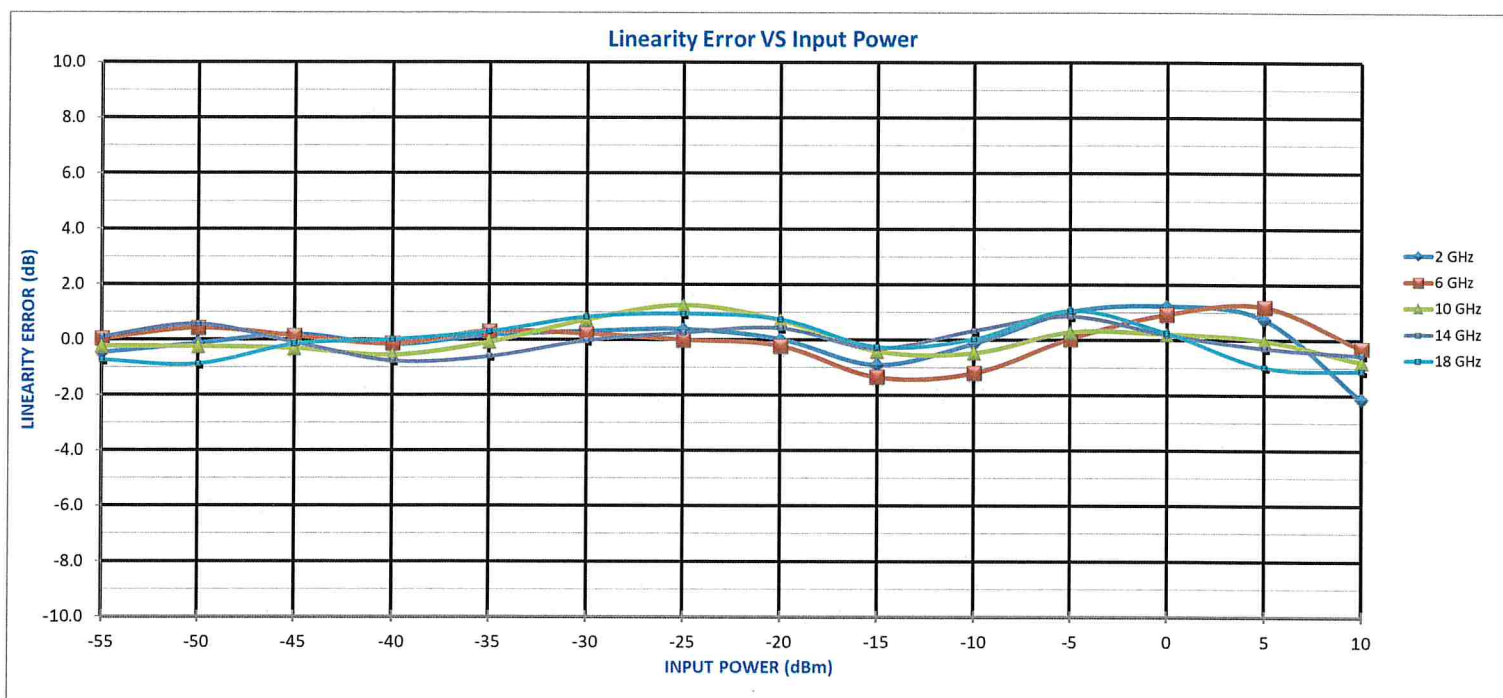
Frequency		-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)			
2 GHz	INTERCEPT (mV)	-220	-305	-390	-464	-549	-631	-712	-786	-851	-943	-1041	-1124	-1196	-1230		Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	8	2	-3	3	-2	-5	-6	0	14	2	-16	-19	-12	34		Error (mV)	MAX	MIN
		-0.47	-0.14	0.19	-0.17	0.16	0.30	0.38	0.02	-0.91	-0.14	1.01	1.21	0.73	-2.14		LINEARITY ERROR (dB)	1.21	-2.14
6 GHz	INTERCEPT (mV)	-249	-338	-416	-494	-584	-665	-744	-823	-887	-972	-1075	-1172	-1259	-1317		Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	0	-7	-2	2	-5	-4	0	4	22	20	-1	-15	-19	5		Error (mV)	MAX	MIN
		0.02	0.41	0.13	-0.14	0.31	0.21	0.00	-0.22	-1.35	-1.20	0.04	0.91	1.18	-0.31		LINEARITY ERROR (dB)	1.18	-1.35
10 GHz	INTERCEPT (mV)	-221	-306	-390	-471	-564	-663	-757	-833	-899	-983	-1081	-1165	-1246	-1318		Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	4	4	5	9	2	-12	-21	-12	7	8	-5	-4	0	14		Error (mV)	MAX	MIN
		-0.24	-0.25	-0.32	-0.56	-0.09	0.72	1.25	0.71	-0.41	-0.48	0.28	0.21	-0.03	-0.80		LINEARITY ERROR (dB)	1.25	-0.80
14 GHz	INTERCEPT (mV)	-221	-314	-388	-462	-550	-645	-735	-823	-896	-992	-1086	-1160	-1237	-1318		Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	-2	-9	2	13	10	1	-4	-7	5	-6	-14	-3	5	9		Error (mV)	MAX	MIN
		0.10	0.55	-0.11	-0.77	-0.60	-0.03	0.25	0.41	-0.31	0.33	0.84	0.18	-0.30	-0.55		LINEARITY ERROR (dB)	0.84	-0.77
18 GHz	INTERCEPT (mV)	-180	-260	-354	-439	-526	-617	-701	-780	-846	-933	-1032	-1101	-1163	-1243		Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	12	14	3	0	-5	-14	-15	-12	4	-1	-17	-4	16	18		Error (mV)	MAX	MIN
		-0.74	-0.87	-0.16	0.01	0.30	0.83	0.93	0.73	-0.25	0.03	1.05	0.25	-0.98	-1.12		LINEARITY ERROR (dB)	1.05	-1.12
Flatness +/- dB		2.10	2.30	1.90	1.70	1.70	1.40	1.70	1.60	1.60	1.80	1.60	2.10	2.90	2.70				
Max Video Output Volts		-0.180	-0.260	-0.354	-0.439	-0.526	-0.617	-0.701	-0.780	-0.846	-0.933	-1.032	-1.101	-1.163	-1.230				
Min Video Output Volts		-0.249	-0.338	-0.416	-0.494	-0.584	-0.665	-0.757	-0.833	-0.899	-0.992	-1.086	-1.172	-1.259	-1.318				
Log Slope Average: mV/dB																	-16.6		
Log Slope Variation: ± mV/dB																	0.55		

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VIDEO LOG LINEARITY (Continued)

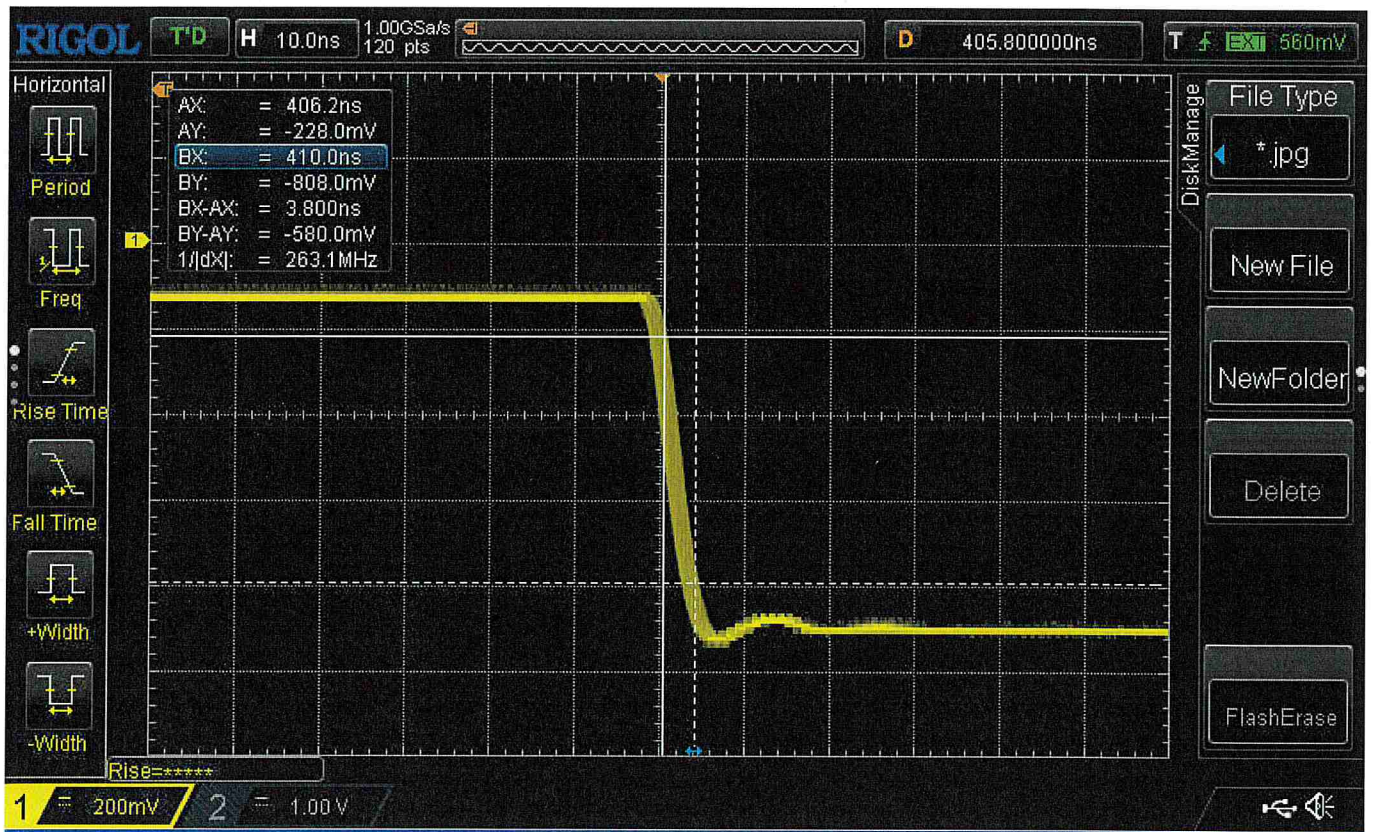


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VIDEO RISE TIME (3.8ns)

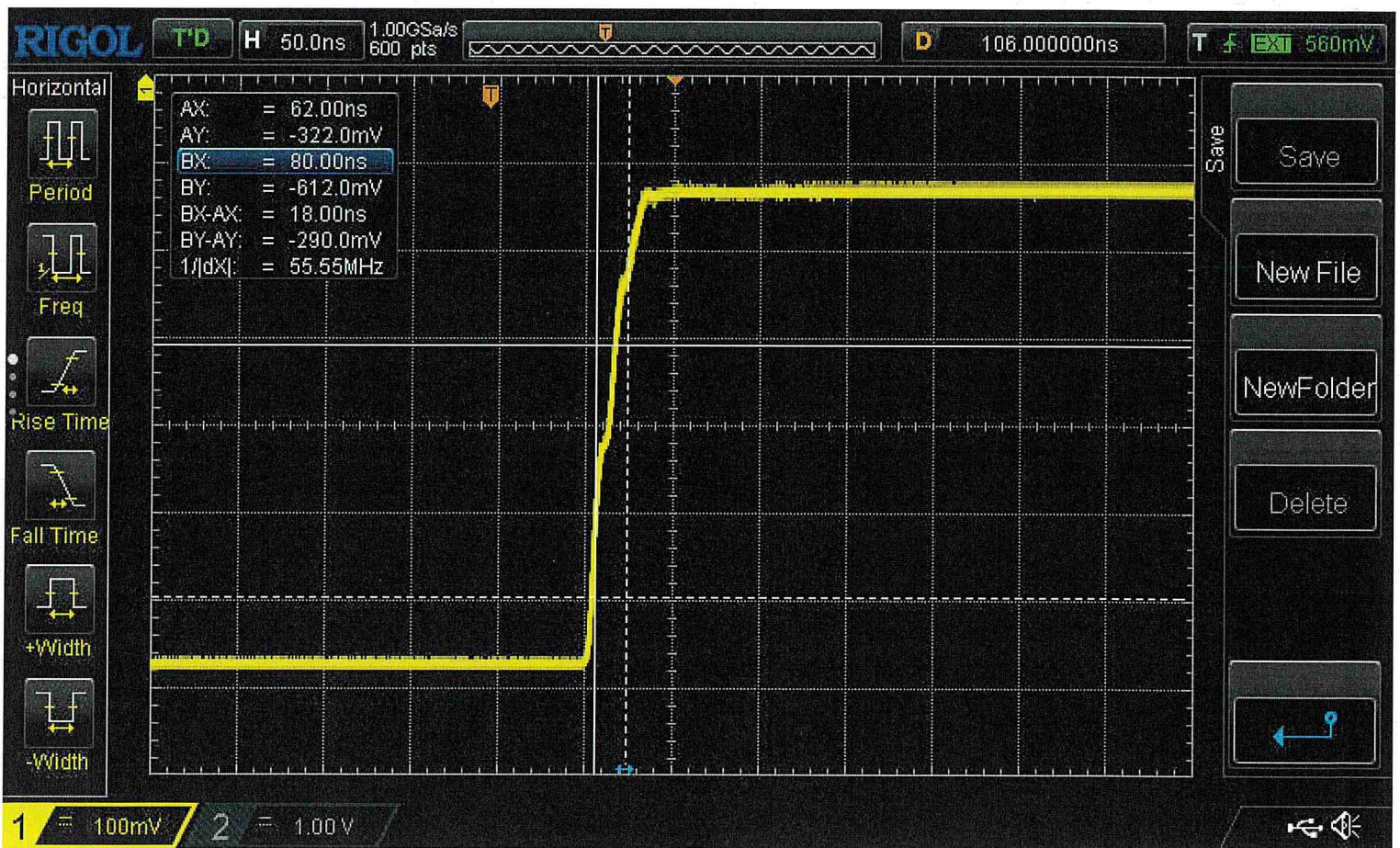


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VIDEO FALL TIME (18.0ns)

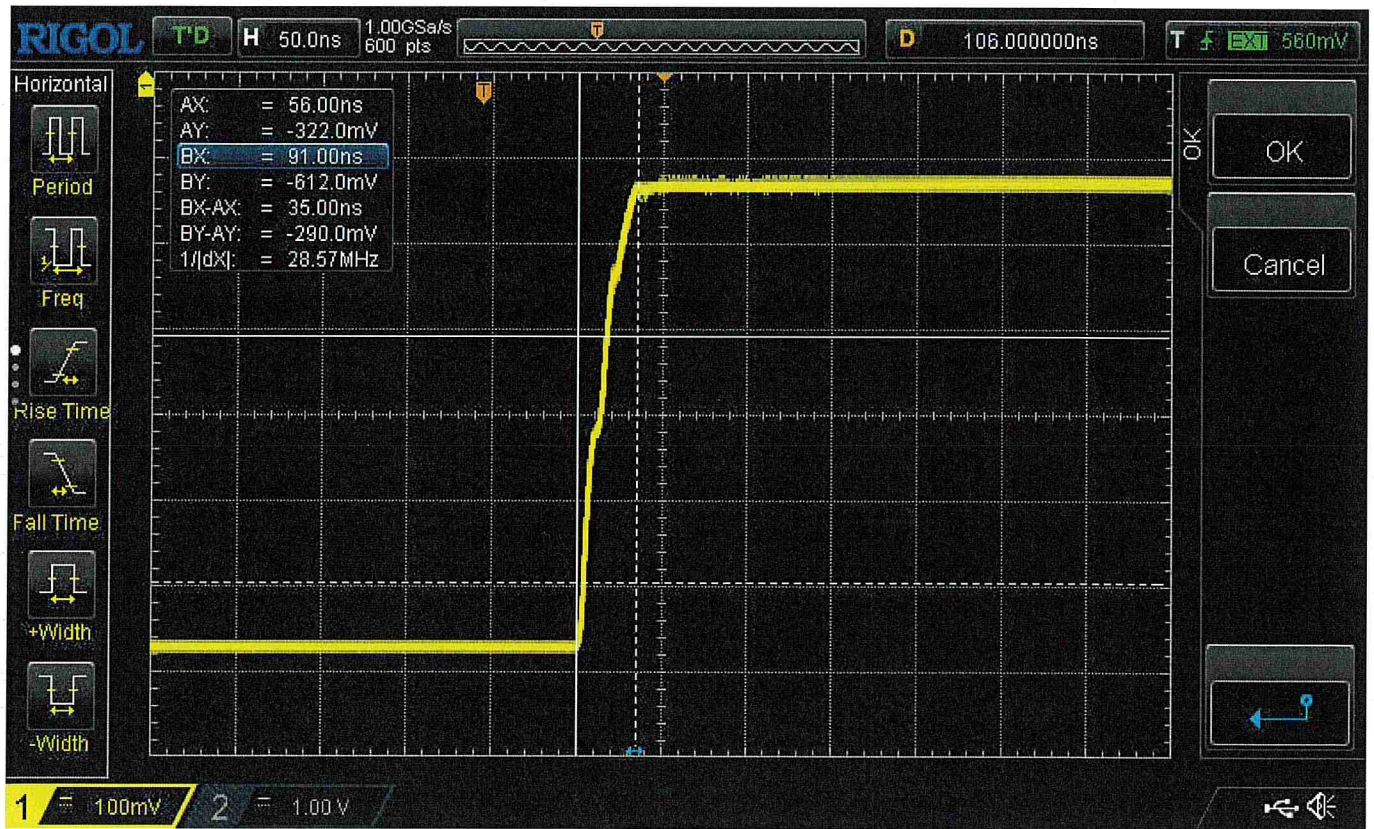


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Recovery Time (35.0ns)



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VSWR (1.98:1)

VSWR GRAPH

